Name: .... Class: ....
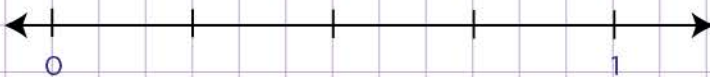
Graph and compare fractions on number lines

a. Graph $\frac{1}{2}$ and $\frac{3}{4}$ on the number line below and state which fraction is smaller.

$\xleftarrow{\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad}\rightarrow$

0   1

b. Graph $\frac{2}{5}$ and $\frac{7}{5}$ on the number line below and state which fraction is greater.

$\xleftarrow{\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad}\rightarrow$

0   1   2

c. Graph $\frac{3}{4}$ and $\frac{10}{8}$ on the number line below and state which fraction is greater.

$\xleftarrow{\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad}\rightarrow$

0   1

d. Graph $\frac{3}{4}$ and $\frac{6}{4}$ on the number line below and state which fraction is greater.

$\xleftarrow{\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad}\rightarrow$

0   1   2

e. Graph $\frac{4}{5}$ and $\frac{9}{7}$ on the number line below and state which fraction is greater.

$\xleftarrow{\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad}\rightarrow$

0   1

f. Graph $\frac{5}{7}$ and $\frac{6}{4}$ on the number line below and state which fraction is greater.

$\xleftarrow{\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad\mid\quad}\rightarrow$

0   1

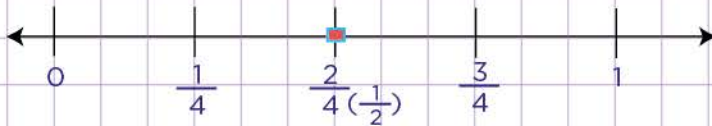Name: .... Class: ....

Graph and compare fractions on number lines

a. Graph $\frac{1}{2}$ and $\frac{3}{4}$ on the number line below and state which fraction is smaller.

$$0 \quad \frac{1}{4} \quad \frac{2}{4} \quad \frac{3}{4} \quad 1$$
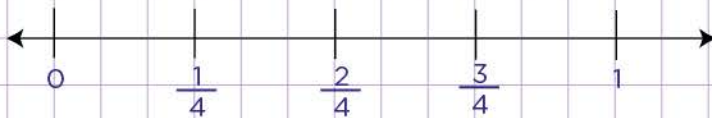
If we try to divide the number line above into 2 equal parts,
you see that $\frac{1}{2}$ will fall at the fraction $\frac{2}{4}$.

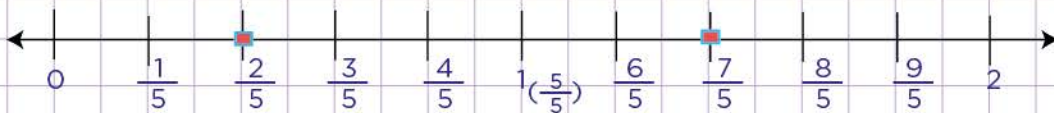$$0 \quad \frac{1}{4} \quad \frac{2}{4}(\frac{1}{2}) \quad \frac{3}{4} \quad 1$$

Secondly, let's graph $\frac{3}{4}$ on the same graph.

$$0 \quad \frac{1}{4} \quad \frac{2}{4}(\frac{1}{2}) \quad \frac{3}{4} \quad 1$$
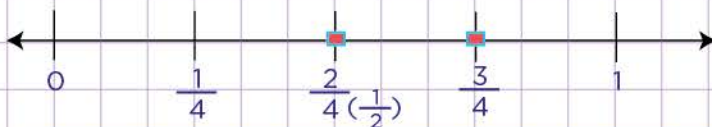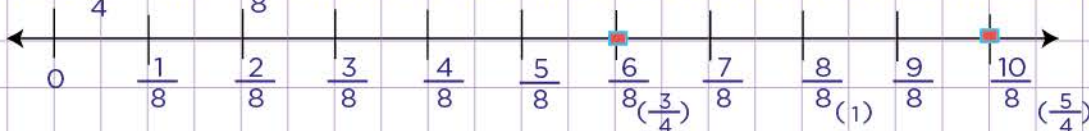
> Finally, you see that $\frac{1}{2}$ is closer to 0 than $\frac{3}{4}$, it implies $\frac{1}{2}$ is smaller.

b. Graph $\frac{2}{5}$ and $\frac{7}{5}$ on the number line below and state which fraction is greater.

$$0 \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{3}{5} \quad \frac{4}{5} \quad 1(\frac{5}{5}) \quad \frac{6}{5} \quad \frac{7}{5} \quad \frac{8}{5} \quad \frac{9}{5} \quad 2$$

> Finally you see that $\frac{2}{5}$ is closer to 0 than $\frac{7}{5}$, it implies $\frac{7}{5}$ is greater.

c. Graph $\frac{3}{4}$ and $\frac{10}{8}$ on the number line below and state which fraction is greater.

$$0 \quad \frac{1}{8} \quad \frac{2}{8} \quad \frac{3}{8} \quad \frac{4}{8} \quad \frac{5}{8} \quad \frac{6}{8}(\frac{3}{4}) \quad \frac{7}{8} \quad \frac{8}{8}(1) \quad \frac{9}{8} \quad \frac{10}{8}(\frac{5}{4})$$

> Finally you see that $\frac{10}{8}$ is greater.